## IN THE CLAIMS

Please amend the claims as follows:

Claims 1-13 (Cancelled)

14. (Currently Amended) A method of constructing a *Schizosaccharomyces pombe* yeast cell which produces a heterologous protein, comprising

deleting or inactivating at least one *S. pombe* gene encoding enzyme selected from the group consisting of dipeptidyl aminopeptidase (SPAC14C4.15c) (SPC14C4.15e), cytoplasmic aminopeptidase (SPAC13A11.05), aspartic protease (SPCC 1795.09), pyruvate decarboxylase pdc1 (SPAC1F8.07c), serine protease isp 6 (SPAC4A8.04) (SPAC4AF8.04), aminopeptidase (SPAC4F10.02) (SPC4F10.02), carboxypeptidase (SPBC16G5.09), carboxypeptidase (SPBC337.07c), vacuolar carboxylase S (SPAC24C9.08), zinc protease (SPACUNK4.12c) (SPCUNK4.12e), zinc protease SPCC1442.07c), metalloprotease (SPCC965.04c), zinc metalloprotease (SPAC17A5.04c), CAAX prenyl protease I (SPC3G1.05) (SPAC3H1.05), dipeptidyl peptidase (SPBC1711.12), dipeptidase (SPCC965.12), methionine metallopeptidase (SPBC 14C8.03), methionine aminopeptidase (SPBC3E7.10), signal peptidase (SPAC1071.04c), and mitochondrial peptidase β subunit (SPBP23A10.15c); and

transforming the *Schizosaccharomyces pombe* yeast cell with a polynucleotide which encodes the heterologous protein,

wherein the deletion or inactivation of the at least one gene results in increased production of the heterologous protein compared to a *Schizosaccharomyces pombe* yeast cell in which the at least one gene has not been deleted or inactivated.

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- 15. (Currently Amended) The method of Claim 14, wherein the at least one enzyme is a pyruvate decarboxylase pdc 1 (SPAC1F8.07c).
  - 16. (Cancelled).
- 17. (Currently Amended) The method of Claim 14, wherein the at least one enzyme is a serine protease isp 6 (SPAC4A8.04).
- 18. (Currently Amended) The method of Claim 14, wherein the at least one enzyme is an aminopeptidase (SPAC4F10.02).
- 19. (Currently Amended) The method of Claim 14, wherein the at least one enzyme is a carboxypeptidase (SPBC16G5.09).
- 20. (Currently Amended) A method of producing a heterologous protein, comprising constructing a *Schizosaccharomyces pombe* yeast cell in which at least one *S. pombe* gene is deleted or inactivated, wherein the at least one *S. pombe* gene encodes an enzyme selected from the group consisting of dipeptidyl aminopeptidase (SPAC14C4.15c) (SPC14C4.15), cytoplasmic aminopeptidase (SPAC13A11.05), aspartic protease (SPCC 1795.09), pyruvate decarboxylase pdc1 (SPAC1F8.07), serine protease isp 6 (SPAC4A8.04) (SPAC4AF8.04), aminopeptidase (SPAC4F10.02) (SPC4F10.02), carboxypeptidase (SPBC16G5.09), carboxypeptidase (SPBC337.07c), vacuolar carboxylase S (SPAC24C9.08), zinc protease (SPACUNK4.12c) (SPCUNK4.12e), zinc protease (SPCC1442.07c), metalloprotease (SPCC965.04c), zinc metalloprotease (SPAC17A5.04c), CAAX prenyl protease I (SPAC3H1.05) (SPC3G1.05), dipeptidyl peptidase (SPBC1711.12), dipeptidase

(SPCC965.12), methionine metallopeptidase (SPBC 14C8.03), methionine aminopeptidase (SPBC3E7.10), signal peptidase (SPAC1071.04c), and mitochondrial peptidase  $\beta$  subunit (SPBP23A10.15c); and

transforming the *Schizosaccharomyces pombe* yeast cell with a polynucleotide which encodes the heterologous protein,

wherein the deletion or inactivation of the at least one gene results in increased production of the heterologous protein compared to a *Schizosaccharomyces pombe* yeast cell in which the at least one gene has not been deleted or inactivated;

culturing the yeast cell constructed such that the heterologous protein is produced by the yeast cell; and collecting the heterologous protein.

- 21. (Currently Amended) The method of Claim 20, wherein the at least one enzyme is a pyruvate decarboxylase pdc 1 (SPAC1F8.07c).
  - 22. (Cancelled).
- 23. (Currently Amended) The method of Claim 20, wherein the at least one enzyme is a serine protease isp 6 (SPAC4A8.04)..
- 24. (Currently Amended) The method of Claim 20, wherein the at least one enzyme is an aminopeptidase (SPAC4F10.02).
- 25. (Currently AmendedThe method of Claim 20, wherein the at least one enzyme is a carboxypeptidase (SPBC16G5.09).